



INSTRUCTION MANUAL

Smoke Detector Camera

I. General

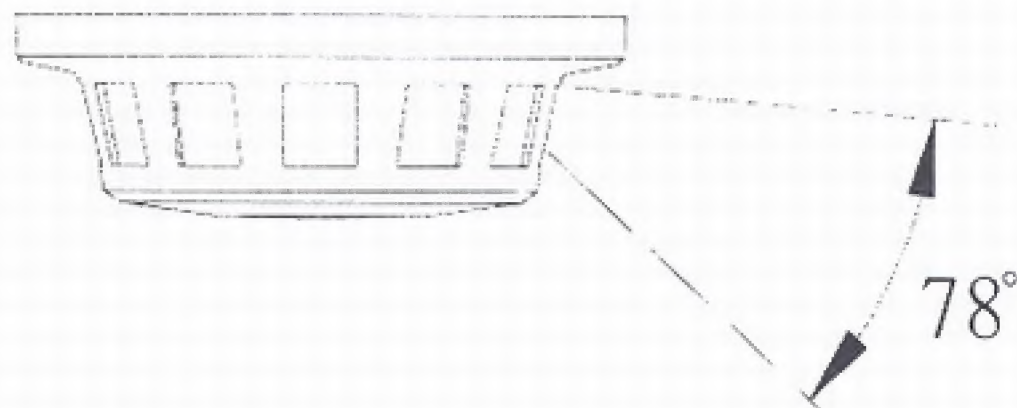
The smoke detectors built with B/W & Color CCD cameras for discreet surveillance. It comes with one B/W or Color CCD camera that delivers clear and sharp picture for side viewing; and it is easy to change different lenses to adopt the best view angles for security need. The smoke detectors camera can simultaneously install up to 4 (2) cameras, which is most economic and effective for video surveillance.

II. Precautions

- Do not expose the camera to humidity and dust. Outdoor application without shielding is not recommended.
- Handle with care. This camera consists of sensitive high precision parts. Do not disassemble or install it on an unstable base.
- Operate on DC+12V. Use a regulated power source only.
- Never face the camera toward the sun directly.

III. Installation Instructions

- ① The horizontal view angle of the Smoke Detector Camera is 78-degree. Decide the location to install the camera.



Full-Screen Width of View
= $1.6 \times$ Distance between
Camera and Target

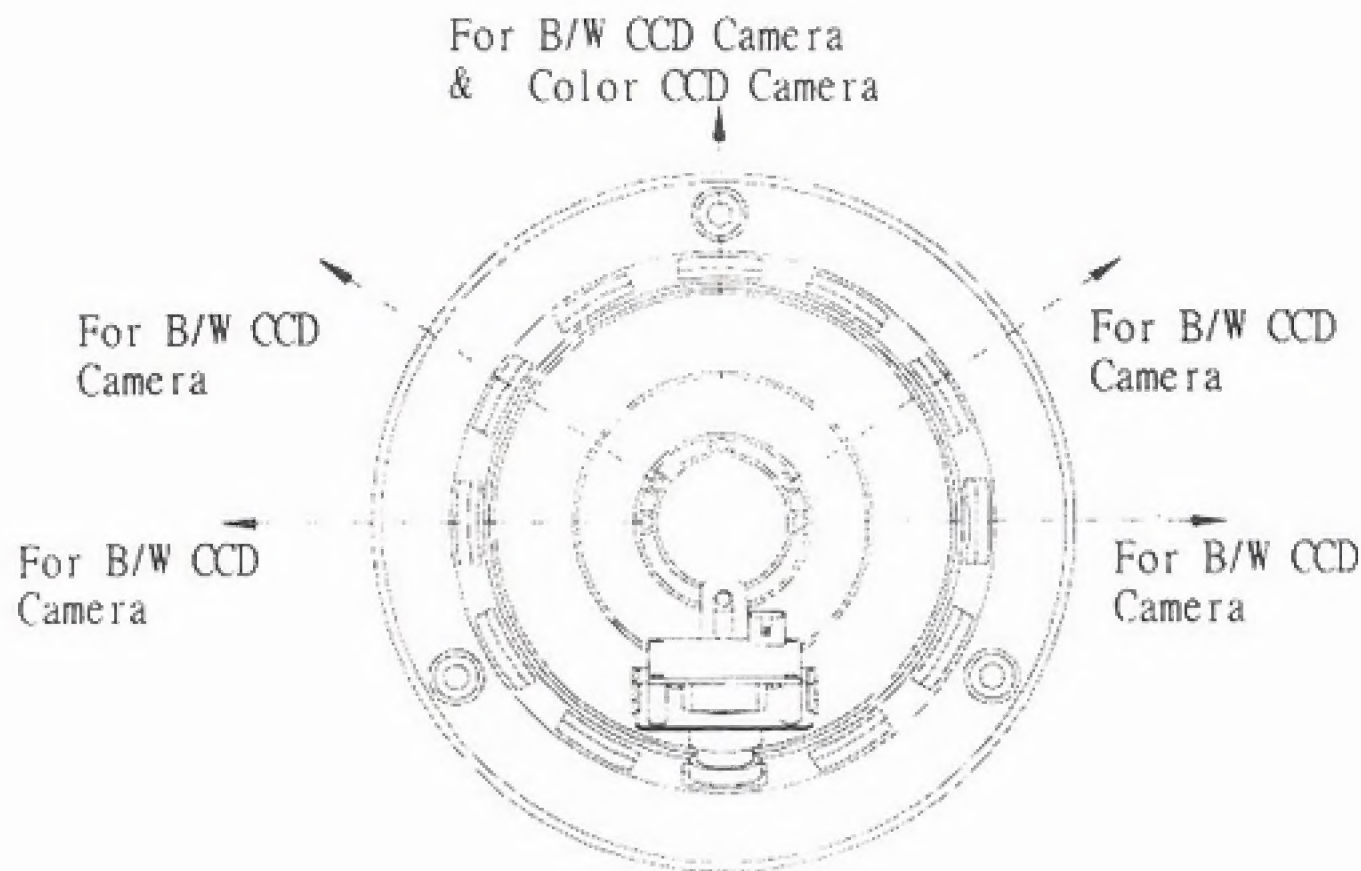
- ② Visually inspect the contents to ascertain that no damage occurred during shipping.
- ③ Plug in the attached video and power cable to the camera

- ④ Connect the video output of the camera to a B/W monitor or a color monitor, or other video device through a 75 ohm type coaxial cable with BNC female connector at cable extension.
- ⑤ Connect the DC+12V regulated power source of the camera to the DC12V Power-in jack with 2mm, center+, outer-plug.
- ⑥ Adjust the direction of the lens as per needed.

IV. Installing More Cameras

The B/W Camera can accommodate up to 4 B/W CCD cameras to view different directions, and the Color Camera can accommodate up to 2 color CCD cameras. The B/W Camera & Color Camera both come with one camera. Please refer to the following steps to install the other cameras.

① The following diagram shows the location for the other cameras.



② Fix the camera by the screw. Tear off the black paper of the corresponding view window where the lens faces to.

③ Repeat steps 3 to 6 in the Installation Instructions.

V. Specifications

	<u>For B/W Camera</u>	<u>For Color Camera</u>
Pickup Device:	1/3 inch B/W interline transfer CCD	1/3 inch Color interline transfer CCD
Picture Element:	510 x 492 (EIA) 500 x 580 (CCIR)	512 x 492 (NTSC) 512 x 580 (PAL)
Horizontal resolution:	420 TV lines	380 TV lines (NTSC) 340 TV lines (PAL)
Sensitivity:	0.04 lux/F=2.0	2.0 lux/F=2.0
S/N ratio:	Over 48 dB	Over 48dB
Electronic shutter:	Up to 1/100,000	Up to 1/100,000
Back Light Comp:	Yes	Yes
Gamma Correction:	> 0.45	>0.45
Video output:	1.0Vp-p,75 ohm	1.0Vp-p,75 ohm
Power source:	12VDC+/-10%, 150mA Max.	12VDC+/-10%, 250mA Max.
Sync. Mode:	Internal Sync.	Internal Sync.
Lens Mount:	M12 x P0.5	M12 x P0.5
Dimension:	150mm O.D. x 50mm H.	150mm O.D. x 50mm H.
Operating Temperature:	-10° C to +50° C	0° C to +50° C